

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10879

LOCATION 60 1/2 - 59

FOREMAN Kirk Kalloff
Tucker DeLo Patrick

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-17-12	FOE A35-73HN	2	5N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>H&P 343</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>10:00am</u>	TIME LEFT LOCATION <u>3:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>706</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBD 657.05</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SOEEZE CEMENT		FINAL BPM
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
MINIMUM psi			<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER		HYD HHP = RATE X PRESSURE X 40.8

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INSTRUCTIONS PRIOR TO JOB Regap, safety meeting, Psited, Permen cnc 50 bbls KCL H2O, 2nd 100L Dye mix Pump
380SKs cement at 30% Excess at 1:27 yield at 15.2 lbs or until cement stops 45, water then 50% Excess
Release Plug Disp 50.7 BBLs H2O, Pump Plug at 150 psi over Lift Psi, wait 5 min Release Psi, wash up
Reg Down H2O 1st OK

Arrived w/ 750SKs cement 4 gal KCL 16oz Dye 85.9 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 1:09 pm cnc 1:33 pm cement 1:40 pm
Drop Plug 2:14 pm Displace 2:14 pm
10 BBLs at 6.0 BBLs/min 2:16 pm 160psi used 14% Excess
20 BBLs at 6.0 BBLs/min 2:17 pm 300psi used 33.6SKs cement
30 BBLs at 6.0 BBLs/min 2:19 pm 400psi 75.9 BBLs slurry
40 BBLs at 6.0 BBLs/min 2:20 pm 450psi
50 BBLs at 11.0 BBLs/min 2:24 pm 270psi
50.7 BBLs at 11.0 BBLs/min 2:24 pm 270psi
Bump Plug 2:24 pm 410psi

Lft w/ 414SKs cement 2 gal 3gts KCL 6oz Dye BBLs Back 5

WSS 1-17-12
AUTHORIZATION TO PROCEED TITLE DATE